

$$f(x) = 2x - 3 \rightarrow m_1$$

$$g(x) = \left(\frac{1}{5}\right)x + 1$$

$$m_1 = +2$$

$$m_2 = \frac{1}{5}$$

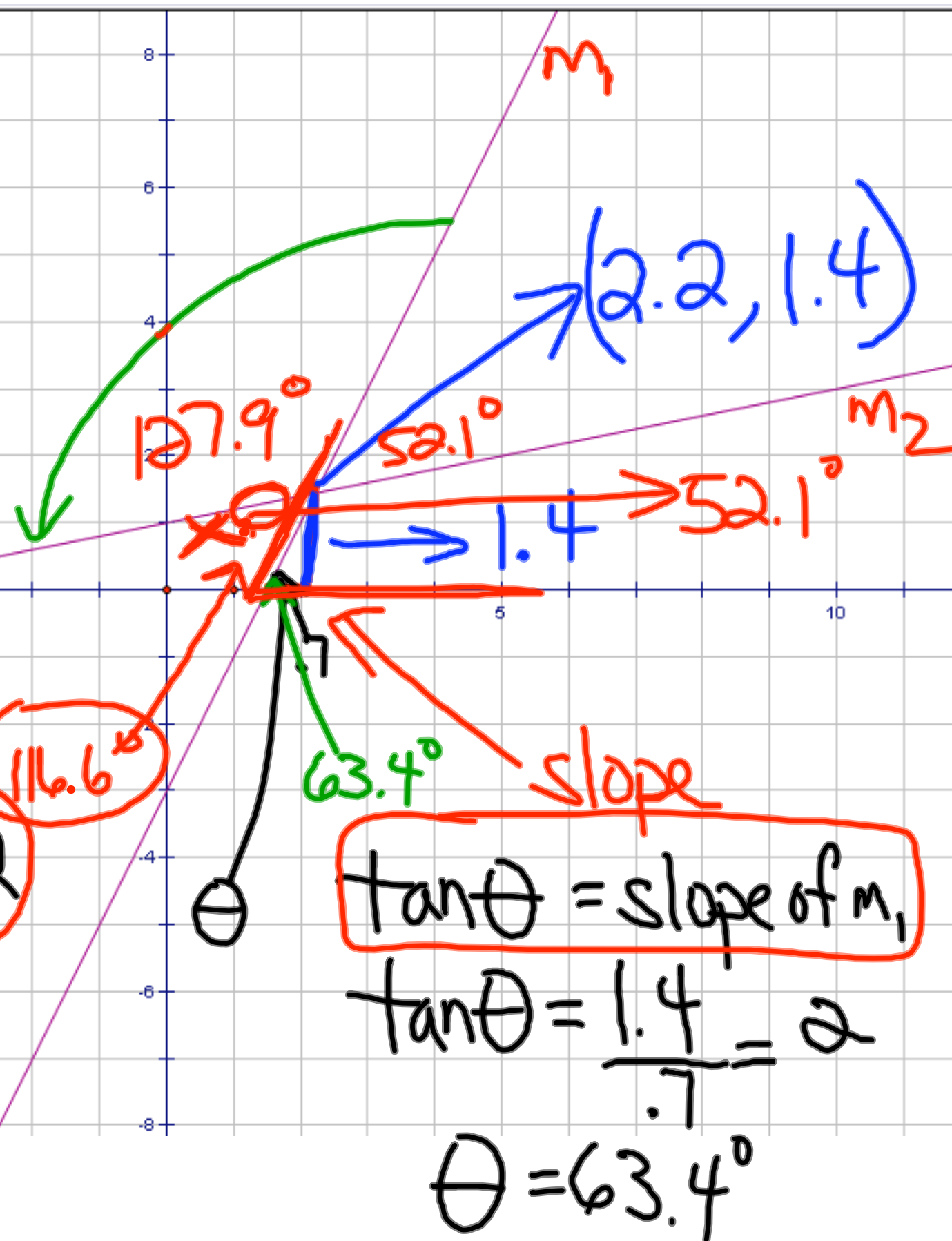
$$x = \theta - \alpha$$

$$x + \alpha = \theta$$

$$\tan \alpha = \frac{1.4}{7.2} = .2$$

$$\alpha = 11.3^\circ$$

m_2



$$\tan \theta = \text{slope of } m_1$$

$$\tan \theta = \frac{1.4}{.7} = 2$$

$$\theta = 63.4^\circ$$

$$\tan \theta = m_1,$$

$$\tan \alpha = m_2$$

$$\chi = \theta - \alpha$$

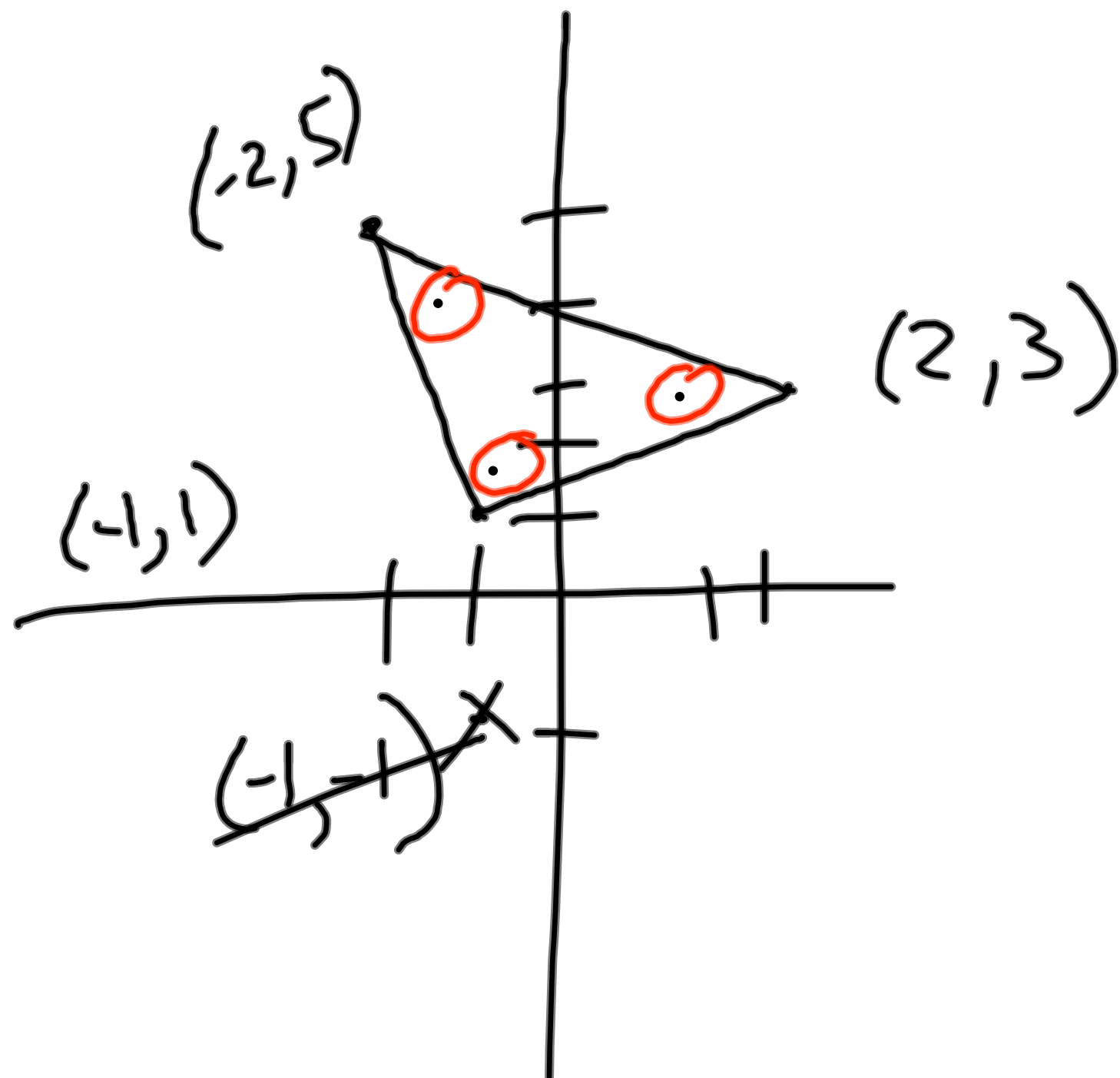
$$\tan \theta = m_1$$

$$\tan \alpha = m_2$$

$$\tan(\overset{\theta}{x_2} - \overset{\alpha}{x_1}) = \frac{\tan x_2 - \tan x_1}{1 + \tan x_2 \tan x_1}$$

$$\tan x = \tan(\theta - \alpha) = \frac{\tan \theta - \tan \alpha}{1 + \tan \theta \tan \alpha}$$

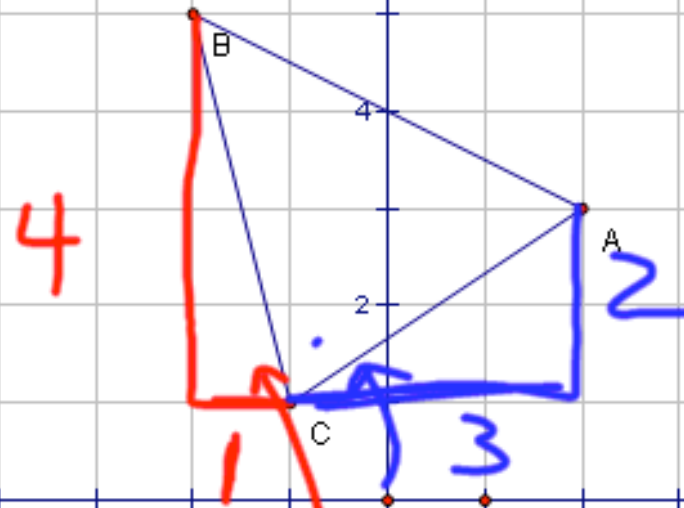
$$\tan x = \frac{m_1 - m_2}{1 + m_1 m_2}$$



$$m\angle ABC = 49.40^\circ$$

$$m\angle BCA = 70.35^\circ$$

$$m\angle CAB = 60.26^\circ$$



$$\tan X = \frac{4}{1}$$

$$X = \tan^{-1}(4)$$

$$X = 75.96^\circ$$

$$\angle C = 70.35^\circ$$

$$\tan Y = \frac{2}{3}$$

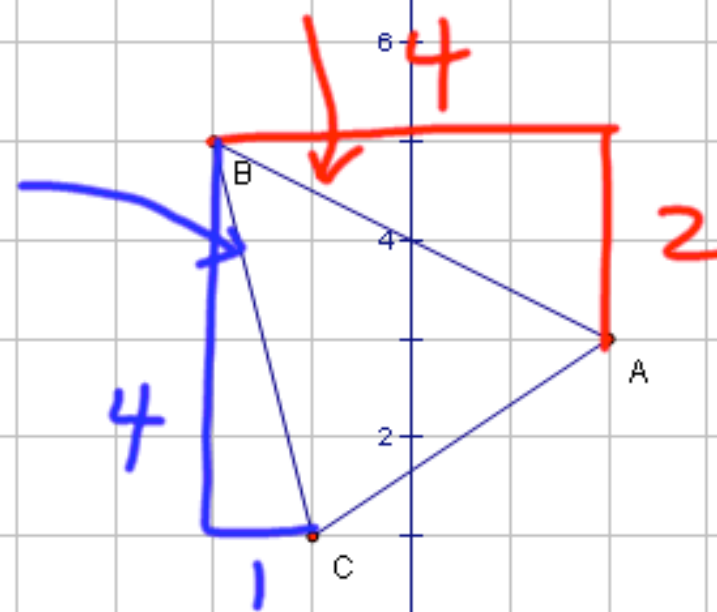
$$Y = \tan^{-1} \frac{2}{3}$$

$$Y = 33.7^\circ$$

$$m\angle ABC = 49.40^\circ$$

$$m\angle BCA = 70.35^\circ$$

$$m\angle CAB = 60.26^\circ$$



$$\tan X = \frac{1}{2}$$

$$X = \tan^{-1}\left(\frac{1}{2}\right)$$

$$X = 26.57^\circ$$

$$\angle B = 49.39^\circ$$

$$\tan Y = \frac{1}{4}$$

$$Y = \tan^{-1}\left(\frac{1}{4}\right)$$

$$Y = 14.04^\circ$$

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